

AMENDMENTS TO THE CLAIMS:

1.(previously presented): A subscriber unit for performing radio communication at a fixed location, comprising:

radio base station detecting means for detecting, in a continuous receive mode, radio base stations from which a radio wave can be received;

area number recognizing means for recognizing an area number of radio base stations of which location registration is permitted;

radio base station extracting means for extracting radio base stations with said area number from among the detected radio base stations; and

synchronization control means for establishing synchronicity with a radio base station of highest reception level among the extracted radio base stations, wherein

said area number recognizing means makes a location registration request to the detected radio base stations, judges a radio base station denying the location registration request to be outside an area, judges a radio base station accepting the location registration request to be inside an area, and recognizes an area number of the radio base station which has accepted the location registration request.

2.(original): The subscriber unit according to claim 1, wherein said radio base station detecting means detects identification numbers of radio base stations from which radio wave can be received.

3.(cancelled)

4.(original): The subscriber unit according to claim 1, wherein said area number recognizing means stores the area number and identification numbers of radio base stations in a nonvolatile memory.

5.(original): The subscriber unit according to claim 1, wherein, when mode is switched to the continuous receive mode after the recognition of the area number by said area number recognizing means, said radio base station extracting means extracts radio base stations with the already recognized area number from among radio base stations newly detected by said radio base station detecting means.

6.(original): The subscriber unit according to claim 1, wherein said synchronization control means maintains synchronicity with a radio base station of highest reception level among the radio base stations detected by said radio base station detecting means before establishing synchronicity with the radio base stations of which location registration is permitted and of which reception level is highest.

7.(original): The subscriber unit according to claim 1, further comprising timer control means for starting a timer when there exists no radio base stations of which location registration is permitted.

8.(original): The subscriber unit according to claim 7, wherein said synchronization control means maintains synchronicity with a radio base station of highest reception level among the detected radio base stations until the timer signals time-out.

9.(original): The subscriber unit according to claim 1, further comprising area number change control means for controlling change of the area number recognized by said area number recognizing means upon recognition of change of the area number.

10.(previously presented): A radio base station recognition method which enables a subscriber unit for performing radio communication at a fixed location to recognize a radio base station, comprising:

detecting, in a continuous receive mode, radio base stations from which a radio wave can be received;

recognizing an area number of radio base stations of which location registration is permitted;

extracting radio base stations with said area number from among the detected radio base stations; and

establishing synchronicity with a radio base station of highest reception level among the extracted radio base stations, wherein

said area number recognizing makes a location registration request to the detected radio base stations, and further including judging a radio base station denying the location registration request to be outside an area, judging a radio base station accepting the location registration request to be inside an area, and recognizing an area number of the radio base station which has accepted the location registration request.

Claim 11. (cancelled)

12.(new): A subscriber unit used in a radio communication system including a first radio base station and a second radio base station, and where a location registration is permitted via the first radio base station for the subscriber unit and the location registration is denied via the second radio base station for the subscriber unit, said subscriber unit comprising:

a memorizing unit for memorizing identification information of the first radio base station;

radio base station detecting means for detecting radio base stations from which radio waves can be received;

extracting means for extracting the first radio base station from among the detected radio base stations based on the identification information memorized in the memorizing unit; and

synchronization control means for establishing synchronicity with the first radio base station without trying to establish synchronicity with the second radio base station.

13.(new): The subscriber unit of claim 12, wherein said radio base station detecting means detecting the second radio base station, and said synchronization control means not trying to establish synchronicity with the second radio base station based on a previously denied location registration via the second radio base station for the subscriber unit.